



OXIDATIVE STRESS

Our range of OXIDATIVE STRESS assay kits and standards is designed to assist in the exploration of oxidative stress markers and metabolites in human and animal samples, as well as samples exposed to drugs and foods.

Oxidative stress is associated with increased production of reactive oxidizing species or decrease in the effectiveness of antioxidant defenses which alter the body's ability to repair the damage caused. The effects of oxidative stress depend upon the extent of these changes. Cells are able to overcome small changes and regain their original state.

Disturbances in the normal redox state of the cells can create toxic effects through production of peroxides and free radicals. These toxic effects damage the cell components, including DNA, proteins and lipids, and severe oxidative stress can cause cell death.

Oxidative stress can cause disruptions in normal mechanisms of cellular signalling. In humans, oxidative stress is believed to be involved in the development of a number of diseases including: asperger syndrome, ADHD, cancer, Parkinson's disease, Alzheimer's disease, atherosclerosis, heart failure, myocardial infarction, fragile X syndrome, Sickle Cell Disease, lichen planus, vitiligo, autism, infection, chronic fatigue syndrome and depression.

The TBARS (Thiobarbituric Acid Reactive Substances) assay has become the assay of choice for screening and monitoring lipid peroxidation, which is a major indicator of oxidative stress.

The assay can be used with many types of samples including drugs, food products and material of human and animal origin and provides standardised and reproducible results.

Product code	Name of the product	Sub-category	Product size	Shipping conditions	Webpage
0801192	TBARS Assay kit	Assay kits	160 det.	+2° to +8° C.	https://www.h-h-c.com/product/tbars-assay-kit/
0801199	Arylesterase - Paraoxonase Assay Kit	Assay kits	200 tests	+2° to +8° C.	https://www.h-h-c.com/product/arylesterase-paraoxonase-assay-kit/
0805002	Total Glutathione Peroxidase Assay Kit	Assay kits	100 tests	+2° to +8° C.	https://www.h-h-c.com/product/total-glutathione-peroxidase-assay-kit/
0805004	Glutathione Reductase Assay Kit	Assay kits	100 tests	+2° to +8° C.	https://www.h-h-c.com/product/glutathione-reductase-assay-kit/
0801210	Dinucleotide Standards Formamido Guanine Dimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-formamido-guanine-dimer/
0801211	Dinucleotide Standards Formamido Cytidine Dimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-formamido-cytidine-dimer/
0801212	Dinucleotide Standards Formamido Thymine Dimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-formamido-thymine-dimer/
0801213	Dinucleotide Standards Formamido Adenine Dimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-formamido-adenine-dimer/
0801214	Dinucleotide Standards ThymineGlycolGuanineDimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-thymineglycolguanine-dimer/

Product code	Name of the product	Sub-category	Product size	Shipping conditions	Webpage
0801215	Dinucleotide Standards ThymineGlycolThymineDimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-thymineglycolthyminedimer/
0801216	Dinucleotide Standards ThymineGlycolCytidineDimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-thymineglycolcytidinedimer/
0801217	Dinucleotide Standards ThymineGlycolAdenineDimer	Standards Nucleotide	50 mg at 1.0 OD	-20° C.	https://www.h-h-c.com/product/dinucleotide-standards-thymineglycoladeninedimer/
0801218	Nucleoside Standards 8-Oxo-dG	Standards Nucleotide	1 mg	-20° C.	https://www.h-h-c.com/product/nucleoside-standards-8-oxo-dg/
0801219	Nucleoside Standards 8-Oxo-dA	Standards Nucleotide	1 mg	-20° C.	https://www.h-h-c.com/product/nucleoside-standards-8-oxo-da/
0801220	Nucleoside Standards 8-oxo-dG*N15	Standards Nucleotide	14.4 ng	-20° C.	https://www.h-h-c.com/product/nucleoside-standards-8-oxo-dg-n15/
0801384	PON Standards	Standards Protein	600 ul	-20° C.	https://www.h-h-c.com/product/pon-standards/

Helvetica Health Care supplies Life Science products to manage health and improve the quality of life. We are committed to unrivalled service with 48 hour, risk free delivery and order tracking from despatch to receipt.

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